

**10 2ND QUARTER OUTPUT REPORT**  
**TABLE OF CONTENTS**

**GOAL 1**

**IMPROVE THE QUALITY OF ARIZONA'S WATER**

**Page #**

**Objective # 1**

**Ensure safe drinking water.**

Task 1.1.1	Drinking Water Plan Review .....	3
Task 1.1.2	Drinking Water Compliance and Enforcement .....	4
Task 1.1.3	Drinking Water Technical Assistance .....	7
Task 1.1.4	Operator Certification .....	8
Task 1.1.5	System Security New and Existing .....	10
Task 1.1.6	New and Existing System Capacity Development .....	12
Task 1.1.7	Safe Drinking Water Monitoring Assistance Program (MAP) .....	13
Task 1.1.8	Implement Source Water Protection .....	14
Task 1.1.9	Drinking Water Monitoring and Reporting .....	16

**Objective # 2**

**Reduce pollutant loading to groundwater.**

Task 1.2.1	Groundwater Protection: Permits, Compliance and Enforcement .....	17
Task 1.2.2	Groundwater Monitoring .....	20

**Objective # 3**

**Reduce pollutant loading to surface water**

Task 1.3.1	Arizona Pollutant Discharge Elimination System (AZPDES) .....	21
Task 1.3.2	CWA 401 Certification of CWA 404 Permits, NEPA Document Review and Other Individual Certifications .....	28
Task 1.3.3	Surface Water Compliance and Enforcement .....	29
Task 1.3.4	Regional Water Quality Management Planning .....	34
Task 1.3.5	Surface Water Program Development, Rules and Standards .....	35
Task 1.3.6	Ambient Monitoring Program .....	36
Task 1.3.7	106 Monitoring .....	38
Task 1.3.8	Water Quality Assessment .....	39
Task 1.3.9	TMDL Analyses .....	40
Task 1.3.10	TMDL Implementation Plan .....	44
Task 1.3.11	NPS Base Program Management .....	46
Task 1.3.12	319(h) Project Management .....	47
Task 1.3.13	604(b) ARRA .....	49
Task 1.3.14	104(b)3 Wetlands Program Development .....	51

**FY 10 2ND QUARTER OUTPUT REPORT  
TABLE OF CONTENTS**

<b>GOAL 1</b>	<b>IMPROVE THE QUALITY OF ARIZONA'S WATER</b>	<b>Page #</b>
<b>Objective # 4</b>	<b>Administer comprehensive water quality program and planning process to provide long-term vision and resources for Water Quality Program. Maximize e-government opportunities to enhance customer service and improve access to information.</b>	
Task 1.4.1	Division and Section Management.....	53
Task 1.4.3	Water Quality Planning .....	55
Task 1.4.4	Water Quality Database Development, Implementation and Management, GIS/GPS projects, and Special Studies.....	57
Task 1.4.5	Border Strategy .....	60
Task 1.4.6	Operational Technical Assistance.....	62

# Y 10 2ND QUARTER OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.5	<b>TASK: Surface Water Program Development</b>  Perform program development support activities for surface water program including development of program procedures and policies.  <b>DELIVERABLES:</b>		
NPS XI	1) Update-implementation procedures for: a) Narrative nutrients in lakes and reservoirs b) Narrative bottom deposits c) Narrative biocriterion. d) Antidegradation	T = 6/10	Surface Water
PPG	2) Draft implementation procedures for: a) Methylmercury in fish tissue b) Narrative toxics standard	T a) 12/09 b) 6/10	Surface Water
	3) Develop narrative nutrient criteria workplan for streams and rivers.	T = 10/09	Surface Water
	4) Develop strategy and establish priorities for 2012 triennial review.	T = 06/10	Surface Water
<b>2ND QTR:</b> Deliverable 2 is off target; the draft is being revised and expect completion by March 2010. Deliverable #3 not met; additional workgroup meetings have been held and a draft workplan document is in progress. Expect to complete the draft by March 2010.			

## OUTPUT REPORT COMMENTS

FTE FUNDING SOURCE	MONTHS	AMOUNT
GFS (SW) PPG	7.00	31,149
GFS (SW) NPS XI	6.00	22,314
WQARF	3.00	9,920
WQARF PPG	6.00	28,100
PPG	8.00	28,535
NPS Impl. XI	7.00	25,861
GFS-AZPDES (SW)	4.00	17,606
GFS (SW)	3.00	10,994
<b>TOTAL</b>	<b>44.00</b>	<b>174,479</b>

## FY 10 2ND QUARTER OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.6	<b>TASK: Ambient Monitoring Program</b>  Ambient monitoring program, which includes rivers and streams, lakes and reservoirs, groundwater, and fish tissue and sediment sampling for priority pollutants.  <b>DELIVERABLES:</b>		
PPG	1) Conduct ambient stream monitoring per FY 10 sampling and analysis plan. Monitoring to include targeted and probalistic basin characterization sites and planning list sites in support of 305(b) assessment process.	T = Quarterly <b>Done</b>	Surface Water/SRO
106 Mon	2) Prepare FY 11 sampling and analysis plan for rivers and streams	T = 5/10	Surface Water
	3) Conduct ambient lake monitoring per FY 10 sampling and analysis plan. Monitoring to include watershed characterization and planning list sites in support of 305(b) water quality assessment process.	T = Quarterly <b>Done</b>	Surface Water
	4) Prepare FY 11 sampling and analysis plan for lakes and reservoirs	T = 5/10	Surface Water
	5) Prepare FY 10 sampling plan for fish tissue monitoring.	T = 9/09	Surface Water
	6) Conduct fish tissue and sediment sampling program on Arizona lakes and reservoirs for presence of mercury-to support-fish consumption advisory programs.	T = Ongoing	Surface Water
<b>OUTPUT REPORT COMMENTS</b>			
<b>2ND QTR:</b> All deliverables on target with the exception of #5; the FY10 fish tissue sampling plan is presently being drawn up. This task should be finished by January 31 <sup>st</sup> . Deliverables 1 and 3 were done according to sampling and analysis plan.			

# Y 10 2ND QUARTER OUTPUT REPORT

<b>GOAL #1: Clean &amp; Safe Water</b> <b>Objective #3: Reduce pollutant loading to surface water.</b>			
<b>Program #4500: Surface Water Regulation</b>			
<b>TASK/ GRANT</b>	<b>OUTPUT DESCRIPTION</b>	<b>EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL</b>	<b>RESPONSIBLE SECTION/ STAFF</b>
<b>1.3.6</b>	<b>TASK: Ambient Monitoring Program (Cont'd)</b>  <b>DELIVERABLES:</b>		

<b>FTE FUNDING SOURCE</b>	<b>MONTHS</b>	<b>AMOUNT</b>
GFS (SW)	12.00	51,789
GFS (SW) NPS XI	21.00	73,095
WQARF	4.92	16,268
WQARF PPG	12.00	39,679
WQARF NPS X	12.00	42,708
WQARF NPS XI	16.50	61,234
PPG	16.00	57,258
106 Monitoring	3.00	9,920
<b>TOTAL</b>	<b>97.42</b>	<b>351,951</b>

# FY 10 2ND QUARTER OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.7	<b>TASK: 106 Monitoring</b>  Monitoring Initiative (MI) program for implementation of AZ approved comprehensive monitoring strategy.  <b>DELIVERABLES:</b>		
106 Mon	1) Support monitoring personnel	T = 6/10	Surface Water
106 Mon-2	2) Monitoring Program Support a) Purchase field and monitoring equipment	T = a) Ongoing thru 6/10	Surface Water
106 Mon-2	3) Physical integrity a) Inventory bank height ration, width depth ratio and Bank Erosion Hazard Index (BEHI) data at selected sites as outlined in ambient monitoring SAP (task 1.3.6 deliverable 1).	T = a) 6/10	Surface Water
106 Mon	4) Emerging contaminants a) Conduct monitoring according to SAP.	T = a) 6/10	Surface Water
106 Mon	5) Intermittent streams a) Conduct intermittent stream monitoring according to FY09 Sampling and Analysis Plan.	T = a) 6/10	Surface Water
106 Mon-2	6) Effluent dependent waters a) Conduct monitoring according to SAP for effluent dependent waters.	T = a) 6/10	Surface Water
<b>OUTPUT REPORT COMMENTS</b>			
<b>2ND QTR:</b> All deliverables are on-target.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
GFS (SW)	6.00	25,834
106 Monitoring	9.00	33,531
106 Monitoring-2	12.00	43,450
<b>TOTAL</b>	<b>27.00</b>	<b>102,815</b>

# Y 10 2ND QUARTER OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.8	<b>TASK: Water Quality Assessment</b>  Development of water quality assessment documents (e.g. 305(b), 205(j) and processes).  <b>DELIVERABLES:</b>		
PPG NPS XI	1) Submit Arizona's Integrated 305(b) Assessment and 303(d) Listing report to EPA.	T = 4/10	Surface Water
<b>OUTPUT REPORT COMMENTS</b>			
<b>2ND QTR:</b> All Deliverables are on target.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
GFS (SW)	3.00	6,880
GFS (SW) PPG	2.84	13,301
WQARF PPG	2.16	10,116
PPG	20.00	70,167
NPS Impl. XI	8.00	27,775
<b>TOTAL</b>	<b>36.00</b>	<b>128,239</b>

## FY 10 2ND QUARTER OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.9	<b>TASK: TMDL Analyses</b>  Oversee Total Maximum Daily load (TMDL) efforts and conduct TMDLs and related analyses.  <b>DELIVERABLES:</b>		
NPS XI PPG	1) a) Provide Quarterly TMDL Project Status Table updates on TMDL progress. b) Submit TMDL Reports to EPA for approval; complete 14 TMDLs on 12 waterbodies in FY 10. (See FY 10 Project Completion Status Table.	a) T= Quarterly <b>Done</b> b) T = 6/10	Surface Water
NPS X PPG	2) a) Continue collecting water quality data for TMDL development and provide status Table Updates each quarter. b) Monitor 23 TMDLs on 13 waterbodies (see FY 10 Continued Monitoring Status Table).	a) T = Quarterly <b>Done</b> T = 6/10	Surface Water
<b>OUTPUT REPORT COMMENTS</b>			
<b>2ND QTR:</b> Deliverable #1b- not met; see table below. Deliverable #2b: on target; see table below.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
GFS (SW)	9.00	35,125
GFS (SW) NPS XI	23.56	86,409
WQARF	10.08	33,330
WQARF NPS X	32.80	120,399
PPG	32.80	120,399
NPS Impl XI	21.94	86,720
NPS Impl X	9.00	29,759
<b>TOTAL</b>	<b>139.18</b>	<b>512,141</b>



# FY 10 2ND QUARTER OUTPUT REPORT

## TMDL PROJECTS QUARTERLY STATUS 1.3.9 TMDL Development – Project Completion by June 2009

Segment	Impairment	Project Manager	Comments
Alamo Lake (1)	Hg in Fish Tissue	stf	Approval 09/09 Q1- internal TMDL draft is under review Q2- recalculating TMDLs based trophic level basis per EPA guidance
Parker Canyon Lake ↳ Next after 1 <sup>st</sup>	Hg in Fish Tissue	ldl	Approval 09/09 Q1- draft TMDL is under development Q2- no action on project due to recalc of other Hg TMDLs
Queen Creek- headwaters to Superior WWTP ↳ 2 <sup>nd</sup> after Parker SSS Potential (Ways out)	Cu	kwp	Approval 09/09 Q1- data collection for SSS continues Q2- one sampling event occurred that filled several data gaps
Queen Creek- Superior WWTP to Potts Canyon	Cu	kwp	Approval 09/09 Q1- data collection for SSS continues Q2- one sampling event occurred that filled several data gaps
Oak Creek- Headwaters to West Fork Oak Creek	<i>E. coli</i>	js9	Approval 09/09 Q1- draft TMDL is under development Q2- TMDLs have been calculated, completing text
Oak Creek- West Fork Oak Creek to tributary (345709/1114513) (5)	<i>E. coli</i>	js9	Approval 09/09 Q1- draft TMDL is under development Q2- TMDLs have been calculated, completing text
Oak Creek- Tributary (345709/1114513) to below SRSP	<i>E. coli</i>	js9	Approval 09/09 Q1- draft TMDL is under development Q2- TMDLs have been calculated, completing text
Oak Creek- below SRSP to Dry Creek	<i>E. coli</i>	js9	Approval 09/09 Q1- draft TMDL is under development Q2- TMDLs have been calculated, completing text
Oak Creek- Dry Creek to Spring Creek	<i>E. coli</i>	js9	Approval 09/09 Q1- draft TMDL is under development Q2- TMDLs have been calculated, completing text
Alvord Lake	NH4	ds12	Approval 06/10 Q2- data analyses continued
Cortez Lake	Low DO, high pH	ds12	Approval 06/10 Q2- data analyses continued
Chaparral Lake	Low DO, <i>E. coli</i>	ds12	Approval 06/10 Q2- data analyses continued
Lower Lake Mary (15)	Hg in fish tissue	stf	Approval 8/09 Q1-draft TMDL under internal review prior to 30-day public notice Q2- recalculating TMDLs based trophic level basis per EPA guidance
Lower Long Lake	Hg in fish tissue	stf	Approval 8/09 Q1-draft TMDL under internal review prior to

Awaiting Modeling Report?

Urban Lakes

# FY 10 2ND QUARTER OUTPUT REPORT

			30-day public notice Q2- recalculating TMDLs based trophic level basis per EPA guidance
Soldiers Lake	Hg in fish tissue	stf	Approval 8/09 Q1-draft TMDL under internal review prior to 30-day public notice Q2- recalculating TMDLs based trophic level basis per EPA guidance
Soldiers Annex Lake	Hg in fish tissue	Stf	Approval 8/09 Q1-draft TMDL under internal review prior to 30-day public notice Q2- recalculating TMDLs based trophic level basis per EPA guidance
Upper Lake Mary	Hg in fish tissue	Stf	Approval 8/09 Q1-draft TMDL under internal review prior to 30-day public notice Q2- recalculating TMDLs based trophic level basis per EPA guidance
Gila River-New Mexico border to Bitter Creek (4)	Sediment, <i>E. coli</i>	dm4	Approval 7/09 Q1- <i>E. coli</i> TMDL is awaiting final internal approval for 45- day AAR notice, draft SSC TMDL and response to comments under internal review prior to 45-day AAR notice Q2- redrafting TMDLs based on updated FMI Morenci permit status
Gila River-Bonita Creek to Yuma Wash	Sediment, <i>E. coli</i>	Dm4	Approval 7/09 Q1- <i>E. coli</i> TMDL is awaiting final internal approval for 45- day AAR notice, draft SSC TMDL and response to comments under internal review prior to 45-day AAR notice Q2- redrafting TMDLs based on updated FMI Morenci permit status

★ Gila River (4)  
Waiting on files from Morenci to update #s  
Renewing ind per

★ likely have comments

★ Oak Creek (5)  
on Debra's desk  
★ won't have comments

★ Lake Mary (5)  
(1) Alamo (Freeport/Baghdad NPDES mods MSGP → Conc based? Looking @ mass based  
Revising & regrouping based on looking @ all species & trophic levels  
Public Review

★ won't have comments

★ Want to start public comment in next month = 3 months out

Next Up: Parker  
February 9, 2010  
Pinto Creek → Doing Site Specific Objective (Carfota = O<sub>2</sub> discharge)  
Mule Gulch → Moving ahead but A2 expecting rule be adopted anytime soon

# Y 10 2ND QUARTER OUTPUT REPORT

Blue River-Strayhorse Creek to San Francisco River	<i>E. coli</i>	dm4	Q1- trained volunteer group on sample collected in support of targeted grant Q2- continued coordination with grantees
San Francisco River-Blue River to Limestone Gulch	<i>E. coli</i>	dm4	Q1- trained volunteer group on sample collected in support of targeted grant Q2- continued coordination with grantees
Crescent Lake	High pH	ds12	Q1- no action on this project Q2- one sampling event that coincided with previously measured exceedances
East Verde River-American Gulch to Verde River	As, B	kwp	Q1- continued SAP development Q2- coordinated sampling efforts with USGS
East Verde River-Ellison Creek to American Gulch	Se	kwp	Q1- continued SAP development Q2- coordinated sampling efforts with USGS
Little Colorado River-Silver Creek to Carr Wash	<i>E. coli</i>	dm4	Q1- additional storm samples needed Q2- TMDL development has begun additional samples will be collected
Little Colorado River-Porter Tank to McDonalds Wash	Cu, Ag, SSC	dm4	Q1- data collection nearly complete Q2- TMDL development has begun, additional SSC will be collected, delist report for Cu and Ag drafted
Lyman Lake ★	Hg in fish tissue	ds12	Q1- poor monsoon produced insufficient runoff for sampling; additional storm runoff samples needed to complete sampling needed to support TMDL development Q2- additional storm/spring melt runoff will be collected, draft lake core report received from contractor
Santa Cruz River-Mexico Border to Nogales Inter WWTP	<i>E. coli</i>	cb9	Q1- loss of staff has resulted in development of this project being delayed Q2- no action on project
Nogales Wash-Mexico Border to Protrero Creek	<i>E. coli</i> , chlorine, ammonia, copper	cb9	Q1- loss of staff has resulted in development of this project being delayed Q2- no action on project
San Pedro River-Aravaipa Creek to Gila River	<i>E. coli</i> , Se	cb9	Q1- loss of staff has resulted in development of this project being delayed Q2- no action on project
Watson Lake ★ <i>Coming to look @ Nutrient history</i>	Nitrogen, low D.O., high pH	Stf	Q1- poor monsoon produced insufficient runoff for sampling Q2- another sampling event occurred
Granite Creek-headwaters to Willow Creek	Low D.O.	Stf	Q1- poor monsoon produced insufficient runoff for sampling Q2- one runoff event was sampled

## FY 10 2ND QUARTER OUTPUT REPORT

GOAL #1: Clean & Safe Water Objective #3: Reduce pollutant loading to surface water.		Program #4500: Surface Water Regulation	
TASK/ GRANT	OUTPUT DESCRIPTION	EVALUATION, DATE OR QUANTITY T=TARGET A=ACTUAL	RESPONSIBLE SECTION/ STAFF
1.3.10	<b>TASK: TMDL Implementation Plans &amp; Effectiveness Monitoring Plan</b>  Develop TMDL implementation plans in support of approved TMDL projects.  <b>DELIVERABLES:</b>		
PPG	1) a) Update TMDL Implementation Plans Status Table each quarter. b) Complete 7 TIP plans.-(See TMDL Implementation Plans Status Table).	a) T = Quarterly <b>Done</b> b) 6/10	Surface Water
PPG	2) Conduct effectiveness monitoring: a) Monitor the effectiveness of remedial activities on 4 Performance Measure waterbodies in addition to 4 others in FY10. (See Effectiveness Monitoring Status Table.)	a) T = 6/10	Surface Water
<b>OUTPUT REPORT COMMENTS</b> <b>2ND QTR:</b> Deliverable #1b: not met; see table below. Deliverable #2a: on target see table below.			

FTE FUNDING SOURCE	MONTHS	AMOUNT
GFS (SW)	3.00	10,994
PPG	19.50	69,316
GFS (SW) NPS XI	4.50	18,791
<b>TOTAL</b>	<b>27.00</b>	<b>99,101</b>

# FY 10 2ND QUARTER OUTPUT REPORT

**FY10 –TMDL IMPLEMENTATION PLANS STATUS TABLE**

Segment	Target Completion Date	Project Manager	Comments
Lake Mary Region	07/09	ks10	Q1-Awaiting completion of the TMDL document
Alamo Lake	08/09	ks10	Q1-Awaiting completion of the TMDL document
Oak Creek	09/09	ks10	Q1-Awaiting completion of the TMDL document
Queen Creek	11/09	ks10	
Pinto Creek	01/10	ks10	
Urban Lakes	02/10	ks10	
Mule Gulch	06/10	ks10	

**FY10 - EFFECTIVENESS MONITORING STATUS TABLE**

Segment	Impairment	Project Manager	Comments
Alum Gulch	Cd, Cu, Zn, pH	sd4	Measure W Q1- several storm water samples were collected via autosamplers, awaiting results
Boulder Creek	As, Cu, Zn	sd4	Measure W Q1- no action on project
Pinto Creek	Cu	sd4	Measure W Q1- no action on project
Turkey Creek	Cu, Pb	sd4	Measure W Q1- no action on project
Verde River	Turbidity	sd4	Q1- no action on project
Little Colorado River	Turbidity	sd4	Q1- no action on project
San Pedro River – Babocomari Creek – Dragoon Wash	<i>E. coli</i>	sd4	Q1- meet with local stakeholders regarding targeted grant opportunity
Sonoita Creek – from Patagonia WWTP to Patagonia Lake	Zn, low DO	sd4	Q1- no action on project

**Performance Measure SP-12 (W) Updates: *Improve water quality conditions in impaired watersheds nationwide using the watershed approach.***

Turkey Creek	Q1- Poor monsoon season resulted in no samples being collected
Pinto Creek	Q1- Poor monsoon season resulted in no samples being collected
Alum Gulch	Q1- Autosamplers collected limited suite of storm runoff samples, awaiting lab results to compare to pre-remedial results
Boulder Creek	Q1- no action on project, no movement has occurred on potential remedies